

Deconstructing a Game In Scratch to Analyze It

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There are several game engines you can utilize to design and build your game. Whichever game engine you choose to create your game it's always important to learn how the audience, elements, and characters in a game work together before going through the game design process.

In this activity, you will analyze a game created in Scratch (game engine) and deconstruct it to understand the design process of a game designer.

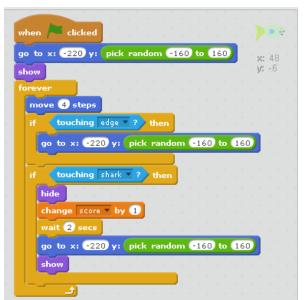
1. Visit, https://scratch.mit.edu/projects/2370244/ and play the game to understand how it works. Note – play more than once by clicking on the green flag



2. What elements do you see in the shark and fish game?



3. How do the elements work together in the game? (Click on the code.)



Explain what happens when the fish touch the shark?

```
Explain what happens when the crab touches the
when 🖊 clicked
                                                       shark?
go to x: -200 y: pick random -160 to -120
                                             x: 70
y: -121
show
 move 2 steps
  if touching edge ? then
   go to x: -200 y: pick random -160 to -120
  if touching shark ? then
   say you just lost 5 points for 2 secs
    hide
    change score ▼ by -5
    wait 2 secs
    go to x: -220 y: pick random -160 to -120
    show
        £
```

4. Looking at the code below, how does the audience interact with the game?

```
8
when / clicked
 if key up arrow ▼ pressed? then
   change y by 5
  if key right arrow pressed? then
   change x by 5
    point in direction 90*
                                          if key down arrow ▼ pressed? then
                                            change y by -5
when 🦰 clicked
go to x: 0 y: 0
point in direction 90°
                                        when 🖊 clicked
  switch costume to shark1-a 🔻
                                          if key left arrow pressed? then
  wait 0.5 secs
                                            change x by -5
  switch costume to shark1-b
                                            point in direction -90▼
  wait 0.5 secs
                                                 4
```